



**Environmental  
Operations, Inc.**  
CLEARING THE WAY

June 5, 2018

Mr. Bruce Morrison  
Project Manager  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Boulevard  
Lenexa, KS 66219

RE: Progress Report  
Solutia – John F. Queeny Plant  
St. Louis, Missouri  
**EPA ID No. MOD 004 954 111**

RCRA 06/05/2018



575175

Dear Mr. Morrison:

Environmental Operations, Inc. (EOI), on behalf of SWH Investments, is providing this Progress Report for the John F. Queeny Plant formerly owned by Solutia. We are providing this Progress Report in order accordance with the reporting requirements of the EPA Docket No. RCRA-07-2009-0015 Consent Order which became effective December 18, 2009.

Reporting Period

April 1, 2018 – May 31, 2018

Description of the work conducted pursuant to the Order during the reporting period.

- Met with Mr. Ahrens on April 2, 2018 to discuss the vapor intrusion testing results and options going forward, including a mitigation system.
- Signed/notarized and returned Environmental Covenant to EPA. Filed fully-executed document with the City of St. Louis, recorded April 12, 2018, and provided a date-stamped copy to EPA.
- EPA signed the Final Decision/Response to Comments document approving the proposed remedy from the accepted Corrective Measures Study on April 30, 2018.
- Performed QA/QC on groundwater data results.
- Monitoring wells were closed May 9, 2018 per approval received in email from Bruce Morrison dated March 2, 2018.

Environmental Engineering, Consulting, Remediation & Demolition  
1530 South 2<sup>nd</sup> Street St. Louis, Missouri 63104-4500 314.241.0900  
[www.environmentalops.com](http://www.environmentalops.com)

RECEIVED  
JUN 06 2018  
AWMD/RCAP

Mr. Bruce Morrison  
June 5, 2018

Estimate of the percentage of the project completed during the reporting period

- Not applicable (NA).

Description of the projects scheduled for completion during the reporting period which were not completed; statement explaining why and updated completion date.

- NA.

Copies of all data and sampling and test results and all other laboratory deliverables received by Respondent during the reporting period.

- Lab data from groundwater sampling conducted in March 2018.

Description of the status of property transfer(s) during the reporting period.

- No change since last update.

Description of the projects and actions which are scheduled for the following reporting period.

- Begin development of the annual groundwater report.

If there are questions or concerns related to this Progress Report, please contact Larry Rosen, who can be reached by phone at (314) 480-4694, or via email at larryr@environmentalops.com.

Respectfully submitted,  
ENVIRONMENTAL OPERATIONS, INC.



Lawrence C. Rosen, R.G.  
Senior Project Manager

Attachment: TekLab Reports 1803144, 18031445R

Copy: Mr. Michael House/Solutia  
Ms. Christine Kump-Mitchell/MDNR  
Mr. Rich Nussbaum/ MDNR

March 28, 2018

Larry Rosen  
Environmental Operations, Inc.  
1530 South Second Street, Suite 200  
St. Louis, MO 63104  
TEL: (314) 480-4694  
FAX: (314) 436-2900



**RE:** Solutia 2950R

**WorkOrder:** 18031444

Dear Larry Rosen:

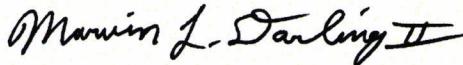
TEKLAB, INC received 7 samples on 3/21/2018 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Marvin L. Darling  
Project Manager  
(618)344-1004 ex 41  
[mdarling@teklabinc.com](mailto:mdarling@teklabinc.com)



## Report Contents

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Client Project:** Solutia 2950R

**Work Order:** 18031444

**Report Date:** 28-Mar-18

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Chain of Custody	Appended



## Definitions

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031444

**Client Project:** Solutia 2950R

**Report Date:** 28-Mar-18

### Abbr Definition

- \* Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                                      | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range                           | H - Holding times exceeded                             |
| I - Associated internal standard was outside method criteria | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit                     | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits                   | T - TIC(Tentatively identified compound)               |
| X - Value exceeds Maximum Contaminant Level                  |  |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Client Project:** Solutia 2950R

**Work Order:** 18031444

**Report Date:** 28-Mar-18

**Cooler Receipt Temp:** 4.22 °C

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com



## Accreditations

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031444

**Client Project:** Solutia 2950R

**Report Date:** 28-Mar-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2018	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-001

Client Sample ID: MW-30A-3-20-18

Matrix: GROUNDWATER

Collection Date: 03/20/2018 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 13:22	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Chlorobenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 13:22	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 13:22	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		101.4	%REC	1	03/23/2018 13:22	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		106.2	%REC	1	03/23/2018 13:22	140302
Surr: Dibromofluoromethane	*	84.9-113		97.6	%REC	1	03/23/2018 13:22	140302
Surr: Toluene-d8	*	86.7-112		103.5	%REC	1	03/23/2018 13:22	140302



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-002

Client Sample ID: MW-36A-3-20-18

Matrix: GROUNDWATER

Collection Date: 03/20/2018 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Acetone	NELAP	10.0		ND	µg/L	1	03/26/2018 13:07	140343
Benzene	NELAP	1.0		1.5	µg/L	1	03/26/2018 13:07	140343
Chlorobenzene	NELAP	1.0		57.4	µg/L	1	03/26/2018 13:07	140343
Chloroform	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Toluene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/26/2018 13:07	140343
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/26/2018 13:07	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.5	%REC	1	03/26/2018 13:07	140343
Surr: 4-Bromo fluorobenzene	*	83.9-115		105.6	%REC	1	03/26/2018 13:07	140343
Surr: Dibromofluoromethane	*	84.9-113		96.8	%REC	1	03/26/2018 13:07	140343
Surr: Toluene-d8	*	86.7-112		100.3	%REC	1	03/26/2018 13:07	140343



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-003

Client Sample ID: MW-38A-3-20-18

Matrix: GROUNDWATER

Collection Date: 03/20/2018 14:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
1,2-Dichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Acetone	NELAP	500		ND	µg/L	50	03/26/2018 13:33	140343
Benzene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Chlorobenzene	NELAP	50.0		123	µg/L	50	03/26/2018 13:33	140343
Chloroform	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
cis-1,2-Dichloroethene	NELAP	50.0		6780	µg/L	50	03/26/2018 13:33	140343
Ethylbenzene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Methylene chloride	NELAP	50.0	X	94.5	µg/L	50	03/26/2018 13:33	140343
Tetrachloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Toluene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
trans-1,2-Dichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Trichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 13:33	140343
Vinyl chloride	NELAP	50.0		2640	µg/L	50	03/26/2018 13:33	140343
Xylenes, Total	NELAP	150		ND	µg/L	50	03/26/2018 13:33	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		100.3	%REC	50	03/26/2018 13:33	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		105.9	%REC	50	03/26/2018 13:33	140343
Surr: Dibromofluoromethane	*	84.9-113		96.4	%REC	50	03/26/2018 13:33	140343
Surr: Toluene-d8	*	86.7-112		101.5	%REC	50	03/26/2018 13:33	140343

*Elevated reporting limit due to high levels of target and/or non-target analytes.*



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-004

Client Sample ID: MW-40A-3-20-18

Matrix: GROUNDWATER

Collection Date: 03/20/2018 15:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 14:42	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Chlorobenzene	NELAP	1.0		15.2	µg/L	1	03/23/2018 14:42	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 14:42	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 14:42	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		99.4	%REC	1	03/23/2018 14:42	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		105.8	%REC	1	03/23/2018 14:42	140302
Surr: Dibromofluoromethane	*	84.9-113		100.2	%REC	1	03/23/2018 14:42	140302
Surr: Toluene-d8	*	86.7-112		102.7	%REC	1	03/23/2018 14:42	140302



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-005

Client Sample ID: MW-17-3-20-18

Matrix: GROUNDWATER

Collection Date: 03/20/2018 16:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 15:08	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Chlorobenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 15:08	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 15:08	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.7	%REC	1	03/23/2018 15:08	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		108.0	%REC	1	03/23/2018 15:08	140302
Surr: Dibromofluoromethane	*	84.9-113		96.9	%REC	1	03/23/2018 15:08	140302
Surr: Toluene-d8	*	86.7-112		103.2	%REC	1	03/23/2018 15:08	140302

## Laboratory Results

<http://www.teklabinc.com/>
**Client:** Environmental Operations, Inc.

**Work Order:** 18031444

**Client Project:** Solutia 2950R

**Report Date:** 28-Mar-18

**Lab ID:** 18031444-006

**Client Sample ID:** MW-17-3-20-18-AD

**Matrix:** GROUNDWATER

**Collection Date:** 03/20/2018 16:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 15:35	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Chlorobenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 15:35	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 15:35	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.3	%REC	1	03/23/2018 15:35	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		105.7	%REC	1	03/23/2018 15:35	140302
Surr: Dibromofluoromethane	*	84.9-113		95.5	%REC	1	03/23/2018 15:35	140302
Surr: Toluene-d8	*	86.7-112		102.9	%REC	1	03/23/2018 15:35	140302



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Lab ID: 18031444-007

Client Sample ID: TRIP BLANK-3-20-18

Matrix: TRIP BLANK

Collection Date: 03/21/2018 16:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 12:56	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Chlorobenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 12:56	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 12:56	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		100.8	%REC	1	03/23/2018 12:56	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		104.1	%REC	1	03/23/2018 12:56	140302
Surr: Dibromofluoromethane	*	84.9-113		100.6	%REC	1	03/23/2018 12:56	140302
Surr: Toluene-d8	*	86.7-112		103.7	%REC	1	03/23/2018 12:56	140302



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 140302 SampType: MBLK Units µg/L  
SampID: MBLK-R180323A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	2.0		ND						03/23/2018
1,2-Dichloroethane	2.0		ND						03/23/2018
Acetone	10.0		ND						03/23/2018
Benzene	0.5		ND						03/23/2018
Chlorobenzene	2.0		ND						03/23/2018
Chloroform	2.0		ND						03/23/2018
cis-1,2-Dichloroethene	2.0		ND						03/23/2018
Ethylbenzene	2.0		ND						03/23/2018
Methylene chloride	2.0		ND						03/23/2018
Tetrachloroethene	0.5		ND						03/23/2018
Toluene	2.0		ND						03/23/2018
trans-1,2-Dichloroethene	2.0		ND						03/23/2018
Trichloroethene	2.0		ND						03/23/2018
Vinyl chloride	2.0		ND						03/23/2018
Xylenes, Total	2.0		ND						03/23/2018
Surr: 1,2-Dichloroethane-d4			48.8	50.00		97.7	79.6	118	03/23/2018
Surr: 4-Bromofluorobenzene			52.6	50.00		105.2	83.9	115	03/23/2018
Surr: Dibromofluoromethane			49.7	50.00		99.3	84.9	113	03/23/2018
Surr: Toluene-d8			51.6	50.00		103.3	86.7	112	03/23/2018

Batch 140302 SampType: LCSD Units µg/L  
SampID: LCSD-R180323A-1

RPD Limit 40

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	2.0		47.4	50.00	0	94.7	47.82	0.95	03/23/2018
1,2-Dichloroethane	2.0		54.4	50.00	0	108.9	54.47	0.06	03/23/2018
Acetone	10.0		110	125.0	0	88.2	111.1	0.79	03/23/2018
Benzene	0.5		51.8	50.00	0	103.5	51.24	1.01	03/23/2018
Chlorobenzene	2.0		51.3	50.00	0	102.6	50.71	1.18	03/23/2018
Chloroform	2.0		49.6	50.00	0	99.3	50.06	0.86	03/23/2018
cis-1,2-Dichloroethene	2.0		53.0	50.00	0	105.9	53.31	0.64	03/23/2018
Ethylbenzene	2.0		52.3	50.00	0	104.6	51.39	1.74	03/23/2018
Methylene chloride	2.0		53.0	50.00	0	105.9	52.77	0.38	03/23/2018
Tetrachloroethene	0.5		44.9	50.00	0	89.8	44.60	0.63	03/23/2018
Toluene	2.0		49.1	50.00	0	98.2	49.07	0.08	03/23/2018
trans-1,2-Dichloroethene	2.0		53.1	50.00	0	106.3	52.27	1.65	03/23/2018
Trichloroethene	2.0		48.9	50.00	0	97.9	50.03	2.20	03/23/2018
Vinyl chloride	2.0		49.2	50.00	0	98.5	48.52	1.49	03/23/2018
Xylenes, Total	2.0		158	150.0	0	105.0	153.6	2.53	03/23/2018
Surr: 1,2-Dichloroethane-d4			51.9	50.00		103.7			03/23/2018
Surr: 4-Bromofluorobenzene			53.0	50.00		105.9			03/23/2018
Surr: Dibromofluoromethane			48.7	50.00		97.3			03/23/2018
Surr: Toluene-d8			51.6	50.00		103.3			03/23/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	2.0		47.8	50.00	0	95.6	75.8	121	03/23/2018
1,2-Dichloroethane	2.0		54.5	50.00	0	108.9	75.6	118	03/23/2018
Acetone	10.0		111	125.0	0	88.8	43.4	125	03/23/2018
Benzene	0.5		51.2	50.00	0	102.5	77.8	120	03/23/2018
Chlorobenzene	2.0		50.7	50.00	0	101.4	82.6	113	03/23/2018
Chloroform	2.0		50.1	50.00	0	100.1	75.8	114	03/23/2018
cis-1,2-Dichloroethene	2.0		53.3	50.00	0	106.6	77.3	118	03/23/2018
Ethylbenzene	2.0		51.4	50.00	0	102.8	81.8	117	03/23/2018
Methylene chloride	2.0		52.8	50.00	0	105.5	71	114	03/23/2018
Tetrachloroethene	0.5		44.6	50.00	0	89.2	75.5	119	03/23/2018
Toluene	2.0		49.1	50.00	0	98.1	82.2	113	03/23/2018
trans-1,2-Dichloroethene	2.0		52.3	50.00	0	104.5	77.5	121	03/23/2018
Trichloroethene	2.0		50.0	50.00	0	100.1	75.7	123	03/23/2018
Vinyl chloride	2.0		48.5	50.00	0	97.0	45.8	138	03/23/2018
Xylenes, Total	2.0		154	150.0	0	102.4	82.7	118	03/23/2018
Surrogate: 1,2-Dichloroethane-d4			51.9	50.00		103.7	79.6	118	03/23/2018
Surrogate: 4-Bromofluorobenzene			51.9	50.00		103.7	83.9	115	03/23/2018
Surrogate: Dibromofluoromethane			47.4	50.00		94.8	84.9	113	03/23/2018
Surrogate: Toluene-d8			51.3	50.00		102.5	86.7	112	03/23/2018

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	250		27900	25000	0	111.5	62.5	121	03/23/2018
Chlorobenzene	1000		39400	25000	11560	111.3	78.6	114	03/23/2018
Ethylbenzene	1000		27900	25000	0	111.8	74.4	130	03/23/2018
Toluene	1000		25600	25000	0	102.2	69.5	118	03/23/2018
Trichloroethene	1000		26900	25000	0	107.6	69.4	117	03/23/2018
Xylenes, Total	1000		54800	50000	0	109.5	71.1	125	03/23/2018
Surrogate: 1,2-Dichloroethane-d4			25800	25000		103.1	74.7	129	03/23/2018
Surrogate: 4-Bromofluorobenzene			26000	25000		104.0	86	119	03/23/2018
Surrogate: Dibromofluoromethane			24600	25000		98.2	81.7	123	03/23/2018
Surrogate: Toluene-d8			25300	25000		101.0	84.3	114	03/23/2018

## Quality Control Results

<http://www.teklabinc.com/>
**Client:** Environmental Operations, Inc.

**Work Order:** 18031444

**Client Project:** Solutia 2950R

**Report Date:** 28-Mar-18

**SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS**

Batch	140302	SampType:	MSD	Units	µg/L	RPD Limit 20				Date Analyzed	
SampID: 18031445-009BMSD											
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	
Benzene		250		24000	25000	0	96.0		27870	14.92	03/23/2018
Chlorobenzene		1000		36700	25000	11560	100.4		39370	7.13	03/23/2018
Ethylbenzene		1000		24400	25000	0	97.4		27940	13.73	03/23/2018
Toluene		1000		22400	25000	0	89.5		25550	13.25	03/23/2018
Trichloroethene		1000		23400	25000	0	93.7		26900	13.81	03/23/2018
Xylenes, Total		1000		47700	50000	0	95.4		54760	13.81	03/23/2018
Surr: 1,2-Dichloroethane-d4				26100	25000		104.4				03/23/2018
Surr: 4-Bromofluorobenzene				26600	25000		106.3				03/23/2018
Surr: Dibromofluoromethane				24000	25000		95.9				03/23/2018
Surr: Toluene-d8				25200	25000		100.9				03/23/2018

**Batch 140343 SampType: MBLK**

Batch	140343	SampType:	MBLK	Units	µg/L	Date Analyzed					
SampID: MBLK-R180326A-1											
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane		2.0		ND							03/26/2018
1,2-Dichloroethane		2.0		ND							03/26/2018
Acetone		10.0		ND							03/26/2018
Benzene		0.5		ND							03/26/2018
Chlorobenzene		2.0		ND							03/26/2018
Chloroform		2.0		ND							03/26/2018
cis-1,2-Dichloroethene		2.0		ND							03/26/2018
Ethylbenzene		2.0		ND							03/26/2018
Methylene chloride		2.0		ND							03/26/2018
Tetrachloroethene		0.5		ND							03/26/2018
Toluene		2.0		ND							03/26/2018
trans-1,2-Dichloroethene		2.0		ND							03/26/2018
Trichloroethene		2.0		ND							03/26/2018
Vinyl chloride		2.0		ND							03/26/2018
Xylenes, Total		2.0		ND							03/26/2018
Surr: 1,2-Dichloroethane-d4				49.4	50.00		98.7		79.6	118	03/26/2018
Surr: 4-Bromofluorobenzene				52.6	50.00		105.1		83.9	115	03/26/2018
Surr: Dibromofluoromethane				48.4	50.00		96.9		84.9	113	03/26/2018
Surr: Toluene-d8				50.7	50.00		101.3		86.7	112	03/26/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	140343	SampType:	LCSD	Units	µg/L	RPD Limit 40			Date Analyzed			
				SampID:	LCSD-R180326A-1	SPK	Ref Val	%REC				
Analyses	RL	Qual		Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	2.0			49.9	50.00	0	99.8	49.11	49.11	1.64	03/26/2018	
1,2-Dichloroethane	2.0			54.5	50.00	0	108.9	54.68	54.68	0.40	03/26/2018	
Acetone	10.0			117	125.0	0	93.3	115.0	115.0	1.42	03/26/2018	
Benzene	0.5			51.9	50.00	0	103.9	51.12	51.12	1.57	03/26/2018	
Chlorobenzene	2.0			51.8	50.00	0	103.5	51.60	51.60	0.31	03/26/2018	
Chloroform	2.0			51.2	50.00	0	102.3	50.60	50.60	1.12	03/26/2018	
cis-1,2-Dichloroethene	2.0			52.6	50.00	0	105.2	53.47	53.47	1.60	03/26/2018	
Ethylbenzene	2.0			53.2	50.00	0	106.4	52.53	52.53	1.25	03/26/2018	
Methylene chloride	2.0			54.6	50.00	0	109.2	54.44	54.44	0.33	03/26/2018	
Tetrachloroethene	0.5			45.6	50.00	0	91.2	46.97	46.97	3.00	03/26/2018	
Toluene	2.0			49.5	50.00	0	99.1	49.31	49.31	0.45	03/26/2018	
trans-1,2-Dichloroethene	2.0			54.4	50.00	0	108.8	54.02	54.02	0.74	03/26/2018	
Trichloroethene	2.0			50.3	50.00	0	100.7	49.55	49.55	1.58	03/26/2018	
Vinyl chloride	2.0			49.4	50.00	0	98.9	51.20	51.20	3.52	03/26/2018	
Xylenes, Total	2.0			159	150.0	0	106.3	156.4	156.4	1.94	03/26/2018	
Surrogate: 1,2-Dichloroethane-d4				50.9	50.00		101.8				03/26/2018	
Surrogate: 4-Bromofluorobenzene				51.2	50.00		102.4				03/26/2018	
Surrogate: Dibromofluoromethane				49.4	50.00		98.8				03/26/2018	
Surrogate: Toluene-d8				51.6	50.00		103.1				03/26/2018	

Batch	140343	SampType:	MS	Units	µg/L	RPD Limit 40			Date Analyzed		
				SampID:	18031445-008BMS	SPK	Ref Val	%REC			
Analyses	RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	25.0			2550	2500	0	102.1	62.5	121		03/26/2018
Chlorobenzene	100	S		9320	2500	5848	138.9	78.6	114		03/26/2018
Ethylbenzene	100			2600	2500	0	104.0	74.4	130		03/26/2018
Toluene	100			2340	2500	0	93.5	69.5	118		03/26/2018
Trichloroethene	100			2540	2500	0	101.7	69.4	117		03/26/2018
Xylenes, Total	100			5190	5000	0	103.8	71.1	125		03/26/2018
Surrogate: 1,2-Dichloroethane-d4				2550	2500		102.0	74.7	129		03/26/2018
Surrogate: 4-Bromofluorobenzene				2620	2500		104.7	86	119		03/26/2018
Surrogate: Dibromofluoromethane				2490	2500		99.5	81.7	123		03/26/2018
Surrogate: Toluene-d8				2450	2500		97.9	84.3	114		03/26/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	140343	SampType:	MSD	Units µg/L				RPD Limit 20			Date Analyzed
				SampID: 18031445-008BMSD							
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Benzene		25.0		2470	2500	0	98.8	2552	3.26	03/26/2018	
Chlorobenzene		100	S	9010	2500	5848	126.5	9320	3.39	03/26/2018	
Ethylbenzene		100		2460	2500	0	98.5	2601	5.45	03/26/2018	
Toluene		100		2230	2500	0	89.3	2336	4.51	03/26/2018	
Trichloroethene		100		2450	2500	0	97.9	2542	3.81	03/26/2018	
Xylenes, Total		100		4860	5000	0	97.2	5190	6.62	03/26/2018	
Surr: 1,2-Dichloroethane-d4				2610	2500		104.2			03/26/2018	
Surr: 4-Bromofluorobenzene				2530	2500		101.1			03/26/2018	
Surr: Dibromofluoromethane				2470	2500		99.0			03/26/2018	
Surr: Toluene-d8				2420	2500		96.9			03/26/2018	

Batch	140343	SampType:	MS	Units mg/L							Date Analyzed
				SampID: 18031509-001AMS							
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Benzene		0.050		4.90	5.000	0	98.1	81.5	113	03/26/2018	
Chlorobenzene		0.200		4.82	5.000	0	96.4	81.8	111	03/26/2018	
Trichloroethene		0.200		4.86	5.000	0	97.2	74.4	117	03/26/2018	
Surr: 1,2-Dichloroethane-d4				5.06	5.000		101.1	74.7	129	03/26/2018	
Surr: 4-Bromofluorobenzene				5.33	5.000		106.6	86	119	03/26/2018	
Surr: Dibromofluoromethane				4.78	5.000		95.7	81.7	123	03/26/2018	
Surr: Toluene-d8				4.90	5.000		98.1	84.3	114	03/26/2018	

Batch	140343	SampType:	MS	Units mg/L							Date Analyzed
				SampID: 18031517-002AMS							
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
1,2-Dichloroethane		0.200	S	5.87	5.000	0	117.4	71.5	116	03/26/2018	
Benzene		0.050	S	5.75	5.000	0	114.9	81.5	113	03/26/2018	
Chlorobenzene		0.200	S	5.56	5.000	0	111.1	81.8	111	03/26/2018	
Chloroform		0.200		5.55	5.000	0	110.9	81	115	03/26/2018	
Tetrachloroethene		0.050		4.80	5.000	0	96.1	61.7	114	03/26/2018	
Trichloroethene		0.200		5.55	5.000	0	110.9	74.4	117	03/26/2018	
Vinyl chloride		0.200		4.42	5.000	0	88.3	45.7	130	03/26/2018	
Surr: 1,2-Dichloroethane-d4				5.12	5.000		102.4	74.7	129	03/26/2018	
Surr: 4-Bromofluorobenzene				5.22	5.000		104.4	86	119	03/26/2018	
Surr: Dibromofluoromethane				4.92	5.000		98.4	81.7	123	03/26/2018	
Surr: Toluene-d8				5.11	5.000		102.1	84.3	114	03/26/2018	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,2-Dichloroethane	0.200	S	5.80	5.000	0	116.1	71.5	116	03/26/2018
Benzene	0.050	S	5.81	5.000	0	116.3	81.5	113	03/26/2018
Chlorobenzene	0.200	S	5.70	5.000	0	113.9	81.8	111	03/26/2018
Chloroform	0.200		5.62	5.000	0	112.4	81	115	03/26/2018
Tetrachloroethene	0.050		4.92	5.000	0	98.3	61.7	114	03/26/2018
Trichloroethene	0.200		5.60	5.000	0	112.0	74.4	117	03/26/2018
Vinyl chloride	0.200		4.68	5.000	0	93.5	45.7	130	03/26/2018
Surr: 1,2-Dichloroethane-d4			5.16	5.000		103.1	74.7	129	03/26/2018
Surr: 4-Bromofluorobenzene			5.14	5.000		102.7	86	119	03/26/2018
Surr: Dibromofluoromethane			4.93	5.000		98.7	81.7	123	03/26/2018
Surr: Toluene-d8			5.06	5.000		101.2	84.3	114	03/26/2018

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,2-Dichloroethane	0.200		5.36	5.000	0	107.1	5.804	8.05	03/26/2018
Benzene	0.050		5.31	5.000	0	106.3	5.814	9.01	03/26/2018
Chlorobenzene	0.200		5.08	5.000	0	101.6	5.695	11.42	03/26/2018
Chloroform	0.200		5.13	5.000	0	102.5	5.619	9.16	03/26/2018
Tetrachloroethene	0.050		4.29	5.000	0	85.9	4.917	13.55	03/26/2018
Trichloroethene	0.200		5.04	5.000	0	100.9	5.601	10.47	03/26/2018
Vinyl chloride	0.200		4.77	5.000	0	95.4	4.675	2.05	03/26/2018
Surr: 1,2-Dichloroethane-d4			5.11	5.000		102.3			03/26/2018
Surr: 4-Bromofluorobenzene			5.20	5.000		103.9			03/26/2018
Surr: Dibromofluoromethane			4.98	5.000		99.5			03/26/2018
Surr: Toluene-d8			4.96	5.000		99.1			03/26/2018

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,2-Dichloroethane	0.200	S	5.98	5.000	0	119.7	71.5	116	03/26/2018
Benzene	0.050	S	5.91	5.000	0	118.1	81.5	113	03/26/2018
Chlorobenzene	0.200	S	5.93	5.000	0.2760	113.1	81.8	111	03/26/2018
Chloroform	0.200		5.62	5.000	0	112.4	81	115	03/26/2018
Tetrachloroethene	0.050		5.02	5.000	0	100.4	61.7	114	03/26/2018
Trichloroethene	0.200		5.65	5.000	0	112.9	74.4	117	03/26/2018
Vinyl chloride	0.200		4.94	5.000	0	98.7	45.7	130	03/26/2018
Surr: 1,2-Dichloroethane-d4			5.13	5.000		102.6	74.7	129	03/26/2018
Surr: 4-Bromofluorobenzene			5.38	5.000		107.6	86	119	03/26/2018
Surr: Dibromofluoromethane			4.94	5.000		98.7	81.7	123	03/26/2018
Surr: Toluene-d8			5.05	5.000		100.9	84.3	114	03/26/2018



## Receiving Check List

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031444

Client Project: Solutia 2950R

Report Date: 28-Mar-18

Carrier: Employee

Received By: KF

Completed by:

Kalyn Foecke

On:

21-Mar-18

Kalyn Foecke

Reviewed by:

Emily Pohlman

On:

21-Mar-18

Emily Pohlman

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?

Yes  No  Not Present  Temp °C 4.22

Type of thermal preservation?

None  Ice  Blue Ice  Dry Ice

Chain of custody present?

Yes  No

Chain of custody signed when relinquished and received?

Yes  No

Chain of custody agrees with sample labels?

Yes  No

Samples in proper container/bottle?

Yes  No

Sample containers intact?

Yes  No

Sufficient sample volume for indicated test?

Yes  No

All samples received within holding time?

Yes  No

Reported field parameters measured:

Field  Lab

NA

Container/Temp Blank temperature in compliance?

Yes  No

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

Water – at least one vial per sample has zero headspace?

Yes  No  No VOA vials

Water - TOX containers have zero headspace?

Yes  No  No TOX containers

Water - pH acceptable upon receipt?

Yes  No  NA

NPDES/CWA TCN interferences checked/treated in the field?

Yes  No  NA

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip). - kfoecke - 3/21/2018 5:10:23 PM

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 1803444

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

<b>Client:</b> Environmental Operations, Inc. <b>Address:</b> 1530 South Second Street, Suite 200 <b>City / State / Zip</b> St. Louis, MO 63104 <b>Contact:</b> Larry Rosen <b>Phone:</b> (314) 480-4694 <b>E-Mail:</b> LarryR@Environmentalops.com <b>Fax:</b>	<b>Samples on:</b> <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>4.32 °C</u> <b>Preserved in:</b> <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <b>FOR LAB USE ONLY</b> <b>Lab Notes</b> <u>6HS KF 3/21/18</u> <b>Client Comments:</b>  
Are these samples known to be involved in litigation? If yes, a surcharge will apply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Project Name/Number		Sample Collector's Name						INDICATE ANALYSIS REQUESTED													
Solutia 2950R		KELSEY THARP																			
Results Requested		Billing Instructions		# and Type of Containers						MATRIX											
				UNPRES	HNO3	NaOH	H2SO4	HCl	MeOH												
1803444-001	MW-30A	3/20/18	11:30				2			X	X										
002	MW-36A	3/20/18	13:15				2			X	X										
003	MW-38A	3/20/18	14:10				2			X	X										
004	MW-40A	3/20/18	15:10				2			X	X										
005	MW-17	3/20/18	16:15				2			X	X										
006	MW-17 DUPLICATE	3/20/18	16:15				2			X	X										
007	TRIP BLANK	LAB					2	X													
Relinquished By				Date/Time				Received By				Date/Time									
				3/21/18 16:35								3/21/18 16:35									

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions.

BottleOrder: 42641



KF  
3/21/18

May 07, 2018

Larry Rosen  
Environmental Operations, Inc.  
1530 South Second Street, Suite 200  
St. Louis, MO 63104  
TEL: (314) 480-4694  
FAX: (314) 436-2900



**RE:** Solutia 2950R

**WorkOrder:** 18031445

Dear Larry Rosen:

TEKLAB, INC received 9 samples on 3/21/2018 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin  
Project Manager  
(618)344-1004 ex 16  
[MAustin@teklabinc.com](mailto:MAustin@teklabinc.com)



## Report Contents

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Accreditations	5
Laboratory Results	6
Quality Control Results	15
Receiving Check List	24
Chain of Custody	Appended



## Definitions

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.

DNI Did not ignite

DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU )

### Qualifiers

# - Unknown hydrocarbon

B - Analyte detected in associated Method Blank

E - Value above quantitation range

H - Holding times exceeded

I - Associated internal standard was outside method criteria

M - Manual Integration used to determine area response

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

S - Spike Recovery outside recovery limits

T - TIC(Tentatively identified compound)

X - Value exceeds Maximum Contaminant Level



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

**Cooler Receipt Temp:** 4.22 °C

This report was revised on 05/07/2018 per Larry Rosen's request. The reason for the revision is to re-analyze samples LPZ-5-3-21-18 (WO# 18031445-002) with dilutions to achieve lower Reporting Limits on ND results. Please replace report dated 03/28/2018 with this report. MLA 05/07/2018

### Locations

Collinsville	
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004
<b>Fax</b>	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com

Collinsville Air	
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004
<b>Fax</b>	(618) 344-1005
<b>Email</b>	EHurley@teklabinc.com

Springfield	
<b>Address</b>	3920 Pintail Dr Springfield, IL 62711-9415
<b>Phone</b>	(217) 698-1004
<b>Fax</b>	(217) 698-1005
<b>Email</b>	KKlostermann@teklabinc.com

Chicago	
<b>Address</b>	1319 Butterfield Rd. Downers Grove, IL 60515
<b>Phone</b>	(630) 324-6855
<b>Fax</b>	
<b>Email</b>	arenner@teklabinc.com

Kansas City	
<b>Address</b>	8421 Nieman Road Lenexa, KS 66214
<b>Phone</b>	(913) 541-1998
<b>Fax</b>	(913) 541-1998
<b>Email</b>	jhriley@teklabinc.com



## Accreditations

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-001

Client Sample ID: LPZ-2-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 8:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
Acetone	NELAP	10.0		51.6	µg/L	1	03/26/2018 14:00	140343
Benzene	NELAP	1.0		8.3	µg/L	1	03/26/2018 14:00	140343
Chlorobenzene	NELAP	1.0		13.2	µg/L	1	03/26/2018 14:00	140343
Chloroform	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
cis-1,2-Dichloroethene	NELAP	1.0		2.0	µg/L	1	03/26/2018 14:00	140343
Ethylbenzene	NELAP	1.0		3.0	µg/L	1	03/26/2018 14:00	140343
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
Tetrachloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
Toluene	NELAP	1.0		132	µg/L	1	03/26/2018 14:00	140343
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 14:00	140343
Vinyl chloride	NELAP	1.0		3.0	µg/L	1	03/26/2018 14:00	140343
Xylenes, Total	NELAP	3.0		4.4	µg/L	1	03/26/2018 14:00	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		94.8	%REC	1	03/26/2018 14:00	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		103.4	%REC	1	03/26/2018 14:00	140343
Surr: Dibromofluoromethane	*	84.9-113		94.7	%REC	1	03/26/2018 14:00	140343
Surr: Toluene-d8	*	86.7-112		100.9	%REC	1	03/26/2018 14:00	140343



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-002

Client Sample ID: LPZ-5-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 9:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
1,2-Dichloroethane	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Acetone	NELAP	2500		ND	µg/L	250	04/03/2018 12:24	140524
Benzene	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Chlorobenzene	NELAP	250		292	µg/L	250	04/03/2018 12:24	140524
Chloroform	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
cis-1,2-Dichloroethene	NELAP	250		2280	µg/L	250	04/03/2018 12:24	140524
Ethylbenzene	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Methylene chloride	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Tetrachloroethene	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Toluene	NELAP	1000		167000	µg/L	1000	03/23/2018 16:28	140302
trans-1,2-Dichloroethene	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Trichloroethene	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Vinyl chloride	NELAP	250		ND	µg/L	250	04/03/2018 12:24	140524
Xylenes, Total	NELAP	750		ND	µg/L	250	04/03/2018 12:24	140524
Surr: 1,2-Dichloroethane-d4	*	79.6-118		89.7	%REC	250	04/03/2018 12:24	140524
Surr: 4-Bromofluorobenzene	*	83.9-115		97.2	%REC	250	04/03/2018 12:24	140524
Surr: Dibromofluoromethane	*	84.9-113		99.3	%REC	250	04/03/2018 12:24	140524
Surr: Toluene-d8	*	86.7-112		92.8	%REC	250	04/03/2018 12:24	140524

*Elevated reporting limit due to high levels of target and/or non-target analytes.*



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-003

Client Sample ID: REC-4-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
1,2-Dichloroethane	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
Acetone	NELAP	2000000		ND	µg/L	1000	03/23/2018 16:55	140302
Benzene	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
Chlorobenzene	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
Chloroform	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
cis-1,2-Dichloroethene	NELAP	200000		6640000	µg/L	1000	03/23/2018 16:55	140302
Ethylbenzene	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
Methylene chloride	NELAP	200000	X	272000	µg/L	1000	03/23/2018 16:55	140302
Tetrachloroethene	NELAP	20000000		993000000	µg/L	1E+05	03/26/2018 14:26	140343
Toluene	NELAP	200000		1780000	µg/L	1000	03/23/2018 16:55	140302
trans-1,2-Dichloroethene	NELAP	200000		ND	µg/L	1000	03/23/2018 16:55	140302
Trichloroethene	NELAP	200000		7470000	µg/L	1000	03/23/2018 16:55	140302
Vinyl chloride	NELAP	200000		1370000	µg/L	1000	03/23/2018 16:55	140302
Xylenes, Total	NELAP	600000		ND	µg/L	1000	03/23/2018 16:55	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		97.5	%REC	1000	03/23/2018 16:55	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		106.4	%REC	1000	03/23/2018 16:55	140302
Surr: Dibromofluoromethane	*	84.9-113		95.8	%REC	1000	03/23/2018 16:55	140302
Surr: Toluene-d8	*	86.7-112		98.2	%REC	1000	03/23/2018 16:55	140302

*Elevated reporting limit due to high levels of target and/or non-target analytes.*



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-004

Client Sample ID: GM-2-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 11:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD</b>								
Alachlor	NELAP	25.0		451	µg/L	500	03/27/2018 13:42	140318
Surr: Decachlorobiphenyl	*	5.54-150		38.7	%REC	1	03/26/2018 20:06	140318
Surr: Tetrachloro-m-xylene	*	13-129		123.1	%REC	1	03/26/2018 20:06	140318
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
1,2-Dichloroethane	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Acetone	NELAP	200		ND	µg/L	20	03/26/2018 14:53	140343
Benzene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Chlorobenzene	NELAP	20.0		584	µg/L	20	03/26/2018 14:53	140343
Chloroform	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
cis-1,2-Dichloroethene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Ethylbenzene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Methylene chloride	NELAP	20.0	X	50.0	µg/L	20	03/26/2018 14:53	140343
Tetrachloroethene	NELAP	20.0		70.8	µg/L	20	03/26/2018 14:53	140343
Toluene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
trans-1,2-Dichloroethene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Trichloroethene	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Vinyl chloride	NELAP	20.0		ND	µg/L	20	03/26/2018 14:53	140343
Xylenes, Total	NELAP	60.0		ND	µg/L	20	03/26/2018 14:53	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		99.8	%REC	20	03/26/2018 14:53	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		108.0	%REC	20	03/26/2018 14:53	140343
Surr: Dibromofluoromethane	*	84.9-113		96.9	%REC	20	03/26/2018 14:53	140343
Surr: Toluene-d8	*	86.7-112		99.4	%REC	20	03/26/2018 14:53	140343

*Elevated reporting limit due to high levels of target and/or non-target analytes.*



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-005

Client Sample ID: VW-1-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 13:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Acetone	NELAP	10.0		ND	µg/L	1	03/26/2018 15:19	140343
Benzene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Chlorobenzene	NELAP	1.0		124	µg/L	1	03/26/2018 15:19	140343
Chloroform	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Tetrachloroethene	NELAP	1.0		13.5	µg/L	1	03/26/2018 15:19	140343
Toluene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/26/2018 15:19	140343
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/26/2018 15:19	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		97.4	%REC	1	03/26/2018 15:19	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		108.3	%REC	1	03/26/2018 15:19	140343
Surr: Dibromofluoromethane	*	84.9-113		98.0	%REC	1	03/26/2018 15:19	140343
Surr: Toluene-d8	*	86.7-112		99.8	%REC	1	03/26/2018 15:19	140343

## Laboratory Results

<http://www.teklabinc.com/>
**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

**Lab ID:** 18031445-006

**Client Sample ID:** MW-24A-3-21-18

**Matrix:** GROUNDWATER

**Collection Date:** 03/21/2018 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	10.0		21.7	µg/L	10	03/23/2018 18:16	140302
1,2-Dichloroethane	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
Acetone	NELAP	100		ND	µg/L	10	03/23/2018 18:16	140302
Benzene	NELAP	20.0		2510	µg/L	20	03/26/2018 15:46	140343
Chlorobenzene	NELAP	10.0		1160	µg/L	10	03/23/2018 18:16	140302
Chloroform	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
cis-1,2-Dichloroethene	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
Ethylbenzene	NELAP	10.0		23.1	µg/L	10	03/23/2018 18:16	140302
Methylene chloride	NELAP	10.0	X	14.7	µg/L	10	03/23/2018 18:16	140302
Tetrachloroethene	NELAP	10.0		65.3	µg/L	10	03/23/2018 18:16	140302
Toluene	NELAP	10.0		40.5	µg/L	10	03/23/2018 18:16	140302
trans-1,2-Dichloroethene	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
Trichloroethene	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
Vinyl chloride	NELAP	10.0		ND	µg/L	10	03/23/2018 18:16	140302
Xylenes, Total	NELAP	30.0		68.0	µg/L	10	03/23/2018 18:16	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		117.9	%REC	10	03/23/2018 18:16	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		106.3	%REC	10	03/23/2018 18:16	140302
Surr: Dibromofluoromethane	*	84.9-113		94.7	%REC	10	03/23/2018 18:16	140302
Surr: Toluene-d8	*	86.7-112		101.7	%REC	10	03/23/2018 18:16	140302

*Elevated reporting limit due to high levels of target and/or non-target analytes.*



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-007

Client Sample ID: RINSATE-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 14:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
1,2-Dichloroethane	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Acetone	NELAP	10.0		ND	µg/L	1	03/23/2018 18:43	140302
Benzene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Chlorobenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Chloroform	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
cis-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Ethylbenzene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Methylene chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Tetrachloroethene	NELAP	1.0		16.1	µg/L	1	03/23/2018 18:43	140302
Toluene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
trans-1,2-Dichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Trichloroethene	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Vinyl chloride	NELAP	1.0		ND	µg/L	1	03/23/2018 18:43	140302
Xylenes, Total	NELAP	3.0		ND	µg/L	1	03/23/2018 18:43	140302
Surr: 1,2-Dichloroethane-d4	*	79.6-118		95.9	%REC	1	03/23/2018 18:43	140302
Surr: 4-Bromofluorobenzene	*	83.9-115		106.1	%REC	1	03/23/2018 18:43	140302
Surr: Dibromofluoromethane	*	84.9-113		92.2	%REC	1	03/23/2018 18:43	140302
Surr: Toluene-d8	*	86.7-112		104.4	%REC	1	03/23/2018 18:43	140302



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-008

Client Sample ID: GM-1-3-21-18

Matrix: GROUNDWATER

Collection Date: 03/21/2018 16:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD</b>								
Alachlor	NELAP	250		4550	µg/L	5000	03/27/2018 15:31	140318
Surr: Decachlorobiphenyl	*	5.54-150		51.9	%REC	1	03/26/2018 20:20	140318
Surr: Tetrachloro-m-xylene	*	13-129		97.0	%REC	1	03/26/2018 20:20	140318
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
1,2-Dichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Acetone	NELAP	500		ND	µg/L	50	03/26/2018 16:12	140343
Benzene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Chlorobenzene	NELAP	50.0	S	5850	µg/L	50	03/26/2018 16:12	140343
Chloroform	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
cis-1,2-Dichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Ethylbenzene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Methylene chloride	NELAP	50.0	X	87.0	µg/L	50	03/26/2018 16:12	140343
Tetrachloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Toluene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
trans-1,2-Dichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Trichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Vinyl chloride	NELAP	50.0		ND	µg/L	50	03/26/2018 16:12	140343
Xylenes, Total	NELAP	150		ND	µg/L	50	03/26/2018 16:12	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		95.8	%REC	50	03/26/2018 16:12	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		105.8	%REC	50	03/26/2018 16:12	140343
Surr: Dibromofluoromethane	*	84.9-113		96.2	%REC	50	03/26/2018 16:12	140343
Surr: Toluene-d8	*	86.7-112		98.0	%REC	50	03/26/2018 16:12	140343

Matrix spike did not recover within control limits due to sample composition.

Elevated reporting limit due to high levels of target and/or non-target analytes.



## Laboratory Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Lab ID: 18031445-009

Client Sample ID: GM-1-3-21-18-AD

Matrix: GROUNDWATER

Collection Date: 03/21/2018 16:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD</b>								
Alachlor	NELAP	125		3560	µg/L	2500	03/27/2018 13:29	140318
Surr: Decachlorobiphenyl	*	5.54-150		61.0	%REC	1	03/26/2018 19:53	140318
Surr: Tetrachloro-m-xylene	*	13-129		90.6	%REC	1	03/26/2018 19:53	140318
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1-Trichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
1,2-Dichloroethane	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Acetone	NELAP	500		ND	µg/L	50	03/26/2018 16:38	140343
Benzene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Chlorobenzene	NELAP	50.0		5870	µg/L	50	03/26/2018 16:38	140343
Chloroform	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
cis-1,2-Dichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Ethylbenzene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Methylene chloride	NELAP	50.0	X	92.0	µg/L	50	03/26/2018 16:38	140343
Tetrachloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Toluene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
trans-1,2-Dichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Trichloroethene	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Vinyl chloride	NELAP	50.0		ND	µg/L	50	03/26/2018 16:38	140343
Xylenes, Total	NELAP	150		ND	µg/L	50	03/26/2018 16:38	140343
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.2	%REC	50	03/26/2018 16:38	140343
Surr: 4-Bromofluorobenzene	*	83.9-115		104.8	%REC	50	03/26/2018 16:38	140343
Surr: Dibromofluoromethane	*	84.9-113		97.1	%REC	50	03/26/2018 16:38	140343
Surr: Toluene-d8	*	86.7-112		98.7	%REC	50	03/26/2018 16:38	140343

*Elevated reporting limit due to high levels of target and/or non-target analytes.*

## Quality Control Results

<http://www.teklabinc.com/>
**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

**SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD**
**Batch 140318 SampType: MBLK**      Units  $\mu\text{g/L}$ 

SampID: MBLK-140318

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Alachlor	0.05		ND						03/26/2018
Surr: Decachlorobiphenyl			0.17	0.2500		67.7	11.3	138	03/26/2018
Surr: Tetrachloro-m-xylene			0.20	0.2500		79.1	13	114	03/26/2018

**Batch 140318 SampType: LCS**      Units  $\mu\text{g/L}$ 

SampID: LCSPST-140318

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Alachlor	0.05		0.25	0.2500	0	100.8	48.4	164	03/26/2018
Surr: Decachlorobiphenyl			0.21	0.2500		85.4	9.42	147	03/26/2018
Surr: Tetrachloro-m-xylene			0.18	0.2500		70.4	13	114	03/26/2018

**Batch 140318 SampType: LCSD**      Units  $\mu\text{g/L}$ 

SampID: LCSPSTD-140318

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Alachlor	0.05		0.34	0.2500	0	134.4	0.2521	28.57	03/26/2018
Surr: Decachlorobiphenyl			0.16	0.2500		65.4			03/26/2018
Surr: Tetrachloro-m-xylene			0.19	0.2500		75.0			03/26/2018

**Batch 140318 SampType: MS**      Units %REC

SampID: 18031589-003AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Surr: Decachlorobiphenyl			0.00068	0.00250C		27.2	10	148	03/27/2018
Surr: Tetrachloro-m-xylene			0.00143	0.00250C		57.3	20.9	124	03/27/2018

**Batch 140318 SampType: MSD**      Units %REC

SampID: 18031589-003AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Surr: Decachlorobiphenyl			0.00053	0.00250C		21.3			03/27/2018
Surr: Tetrachloro-m-xylene			0.00212	0.00250C		84.8			03/27/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 140302 SampType: MBLK Units µg/L

SampID: MBLK-R180323A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	2.0		ND						03/23/2018
1,2-Dichloroethane	2.0		ND						03/23/2018
Acetone	10.0		ND						03/23/2018
Benzene	0.5		ND						03/23/2018
Chlorobenzene	2.0		ND						03/23/2018
Chloroform	2.0		ND						03/23/2018
cis-1,2-Dichloroethene	2.0		ND						03/23/2018
Ethylbenzene	2.0		ND						03/23/2018
Methylene chloride	2.0		ND						03/23/2018
Tetrachloroethene	0.5		ND						03/23/2018
Toluene	2.0		ND						03/23/2018
trans-1,2-Dichloroethene	2.0		ND						03/23/2018
Trichloroethene	2.0		ND						03/23/2018
Vinyl chloride	2.0		ND						03/23/2018
Xylenes, Total	2.0		ND						03/23/2018
Surr: 1,2-Dichloroethane-d4			48.8	50.00	97.7		79.6	118	03/23/2018
Surr: 4-Bromofluorobenzene			52.6	50.00	105.2		83.9	115	03/23/2018
Surr: Dibromofluoromethane			49.7	50.00	99.3		84.9	113	03/23/2018
Surr: Toluene-d8			51.6	50.00	103.3		86.7	112	03/23/2018

Batch 140302 SampType: LCSD Units µg/L

SampID: LCSD-R180323A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Limit 40		Date Analyzed
							RPD Ref Val	%RPD	
1,1,1-Trichloroethane	2.0		47.4	50.00	0	94.7	47.82	0.95	03/23/2018
1,2-Dichloroethane	2.0		54.4	50.00	0	108.9	54.47	0.06	03/23/2018
Acetone	10.0		110	125.0	0	88.2	111.1	0.79	03/23/2018
Benzene	0.5		51.8	50.00	0	103.5	51.24	1.01	03/23/2018
Chlorobenzene	2.0		51.3	50.00	0	102.6	50.71	1.18	03/23/2018
Chloroform	2.0		49.6	50.00	0	99.3	50.06	0.86	03/23/2018
cis-1,2-Dichloroethene	2.0		53.0	50.00	0	105.9	53.31	0.64	03/23/2018
Ethylbenzene	2.0		52.3	50.00	0	104.6	51.39	1.74	03/23/2018
Methylene chloride	2.0		53.0	50.00	0	105.9	52.77	0.38	03/23/2018
Tetrachloroethene	0.5		44.9	50.00	0	89.8	44.60	0.63	03/23/2018
Toluene	2.0		49.1	50.00	0	98.2	49.07	0.08	03/23/2018
trans-1,2-Dichloroethene	2.0		53.1	50.00	0	106.3	52.27	1.65	03/23/2018
Trichloroethene	2.0		48.9	50.00	0	97.9	50.03	2.20	03/23/2018
Vinyl chloride	2.0		49.2	50.00	0	98.5	48.52	1.49	03/23/2018
Xylenes, Total	2.0		158	150.0	0	105.0	153.6	2.53	03/23/2018
Surr: 1,2-Dichloroethane-d4			51.9	50.00		103.7			03/23/2018
Surr: 4-Bromofluorobenzene			53.0	50.00		105.9			03/23/2018
Surr: Dibromofluoromethane			48.7	50.00		97.3			03/23/2018
Surr: Toluene-d8			51.6	50.00		103.3			03/23/2018

## Quality Control Results

<http://www.teklabinc.com/>
**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

**SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS**

Batch	140302	SampType:	LCS	Units µg/L						
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane		2.0		47.8	50.00	0	95.6	75.8	121	03/23/2018
1,2-Dichloroethane		2.0		54.5	50.00	0	108.9	75.6	118	03/23/2018
Acetone		10.0		111	125.0	0	88.8	43.4	125	03/23/2018
Benzene		0.5		51.2	50.00	0	102.5	77.8	120	03/23/2018
Chlorobenzene		2.0		50.7	50.00	0	101.4	82.6	113	03/23/2018
Chloroform		2.0		50.1	50.00	0	100.1	75.8	114	03/23/2018
cis-1,2-Dichloroethene		2.0		53.3	50.00	0	106.6	77.3	118	03/23/2018
Ethylbenzene		2.0		51.4	50.00	0	102.8	81.8	117	03/23/2018
Methylene chloride		2.0		52.8	50.00	0	105.5	71	114	03/23/2018
Tetrachloroethene		0.5		44.6	50.00	0	89.2	75.5	119	03/23/2018
Toluene		2.0		49.1	50.00	0	98.1	82.2	113	03/23/2018
trans-1,2-Dichloroethene		2.0		52.3	50.00	0	104.5	77.5	121	03/23/2018
Trichloroethene		2.0		50.0	50.00	0	100.1	75.7	123	03/23/2018
Vinyl chloride		2.0		48.5	50.00	0	97.0	45.8	138	03/23/2018
Xylenes, Total		2.0		154	150.0	0	102.4	82.7	118	03/23/2018
Surr: 1,2-Dichloroethane-d4				51.9	50.00		103.7	79.6	118	03/23/2018
Surr: 4-Bromofluorobenzene				51.9	50.00		103.7	83.9	115	03/23/2018
Surr: Dibromofluoromethane				47.4	50.00		94.8	84.9	113	03/23/2018
Surr: Toluene-d8				51.3	50.00		102.5	86.7	112	03/23/2018

Batch	140302	SampType:	MS	Units µg/L						
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		250		27900	25000	0	111.5	62.5	121	03/23/2018
Chlorobenzene		1000		39400	25000	11560	111.3	78.6	114	03/23/2018
Ethylbenzene		1000		27900	25000	0	111.8	74.4	130	03/23/2018
Toluene		1000		25600	25000	0	102.2	69.5	118	03/23/2018
Trichloroethene		1000		26900	25000	0	107.6	69.4	117	03/23/2018
Xylenes, Total		1000		54800	50000	0	109.5	71.1	125	03/23/2018
Surr: 1,2-Dichloroethane-d4				25800	25000		103.1	74.7	129	03/23/2018
Surr: 4-Bromofluorobenzene				26000	25000		104.0	86	119	03/23/2018
Surr: Dibromofluoromethane				24600	25000		98.2	81.7	123	03/23/2018
Surr: Toluene-d8				25300	25000		101.0	84.3	114	03/23/2018



## Quality Control Results

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Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Batch	SampType:	Units	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Benzene	140302		µg/L	250		24000	25000	0	96.0	27870	14.92	03/23/2018	
Chlorobenzene				1000		36700	25000	11560	100.4	39370	7.13	03/23/2018	
Ethylbenzene				1000		24400	25000	0	97.4	27940	13.73	03/23/2018	
Toluene				1000		22400	25000	0	89.5	25550	13.25	03/23/2018	
Trichloroethene				1000		23400	25000	0	93.7	26900	13.81	03/23/2018	
Xylenes, Total				1000		47700	50000	0	95.4	54760	13.81	03/23/2018	
Surr: 1,2-Dichloroethane-d4						26100	25000		104.4			03/23/2018	
Surr: 4-Bromofluorobenzene						26600	25000		106.3			03/23/2018	
Surr: Dibromofluoromethane						24000	25000		95.9			03/23/2018	
Surr: Toluene-d8						25200	25000		100.9			03/23/2018	

### Batch 140343 SampType: MBLK Units µg/L

Analyses	Batch	SampType:	Units	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	140343		µg/L	2.0		ND						03/26/2018
1,2-Dichloroethane				2.0		ND						03/26/2018
Acetone				10.0		ND						03/26/2018
Benzene				0.5		ND						03/26/2018
Chlorobenzene				2.0		ND						03/26/2018
Chloroform				2.0		ND						03/26/2018
cis-1,2-Dichloroethene				2.0		ND						03/26/2018
Ethylbenzene				2.0		ND						03/26/2018
Methylene chloride				2.0		ND						03/26/2018
Tetrachloroethene				0.5		ND						03/26/2018
Toluene				2.0		ND						03/26/2018
trans-1,2-Dichloroethene				2.0		ND						03/26/2018
Trichloroethene				2.0		ND						03/26/2018
Vinyl chloride				2.0		ND						03/26/2018
Xylenes, Total				2.0		ND						03/26/2018
Surr: 1,2-Dichloroethane-d4						49.4	50.00	98.7	79.6	118		03/26/2018
Surr: 4-Bromofluorobenzene						52.6	50.00	105.1	83.9	115		03/26/2018
Surr: Dibromofluoromethane						48.4	50.00	96.9	84.9	113		03/26/2018
Surr: Toluene-d8						50.7	50.00	101.3	86.7	112		03/26/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 140343 SampType: LCS Units µg/L  
SamplD: LCS-R180326A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	2.0		49.9	50.00	0	99.8	75.8	121	03/26/2018
1,2-Dichloroethane	2.0		54.5	50.00	0	108.9	75.6	118	03/26/2018
Acetone	10.0		117	125.0	0	93.3	43.4	125	03/26/2018
Benzene	0.5		51.9	50.00	0	103.9	77.8	120	03/26/2018
Chlorobenzene	2.0		51.8	50.00	0	103.5	82.6	113	03/26/2018
Chloroform	2.0		51.2	50.00	0	102.3	75.8	114	03/26/2018
cis-1,2-Dichloroethene	2.0		52.6	50.00	0	105.2	77.3	118	03/26/2018
Ethylbenzene	2.0		53.2	50.00	0	106.4	81.8	117	03/26/2018
Methylene chloride	2.0		54.6	50.00	0	109.2	71	114	03/26/2018
Tetrachloroethene	0.5		45.6	50.00	0	91.2	75.5	119	03/26/2018
Toluene	2.0		49.5	50.00	0	99.1	82.2	113	03/26/2018
trans-1,2-Dichloroethene	2.0		54.4	50.00	0	108.8	77.5	121	03/26/2018
Trichloroethene	2.0		50.3	50.00	0	100.7	75.7	123	03/26/2018
Vinyl chloride	2.0		49.4	50.00	0	98.9	45.8	138	03/26/2018
Xylenes, Total	2.0		159	150.0	0	106.3	82.7	118	03/26/2018
Surr: 1,2-Dichloroethane-d4			50.9	50.00		101.8	79.6	118	03/26/2018
Surr: 4-Bromofluorobenzene			51.2	50.00		102.4	83.9	115	03/26/2018
Surr: Dibromofluoromethane			49.4	50.00		98.8	84.9	113	03/26/2018
Surr: Toluene-d8			51.6	50.00		103.1	86.7	112	03/26/2018

Batch 140343 SampType: MS Units µg/L  
SamplD: 18031445-008BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	25.0		2550	2500	0	102.1	62.5	121	03/26/2018
Chlorobenzene	100	S	9320	2500	5848	138.9	78.6	114	03/26/2018
Ethylbenzene	100		2600	2500	0	104.0	74.4	130	03/26/2018
Toluene	100		2340	2500	0	93.5	69.5	118	03/26/2018
Trichloroethene	100		2540	2500	0	101.7	69.4	117	03/26/2018
Xylenes, Total	100		5190	5000	0	103.8	71.1	125	03/26/2018
Surr: 1,2-Dichloroethane-d4			2550	2500		102.0	74.7	129	03/26/2018
Surr: 4-Bromofluorobenzene			2620	2500		104.7	86	119	03/26/2018
Surr: Dibromofluoromethane			2490	2500		99.5	81.7	123	03/26/2018
Surr: Toluene-d8			2450	2500		97.9	84.3	114	03/26/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	140343	SampType:	MSD	Units µg/L				RPD Limit 20			Date Analyzed
				SampID:	18031445-008BMSD						
Analyses	RL	Qual		Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Benzene	25.0			2470	2500	0	98.8	2552	3.26	03/26/2018	
Chlorobenzene	100	S		9010	2500	5848	126.5	9320	3.39	03/26/2018	
Ethylbenzene	100			2460	2500	0	98.5	2601	5.45	03/26/2018	
Toluene	100			2230	2500	0	89.3	2336	4.51	03/26/2018	
Trichloroethene	100			2450	2500	0	97.9	2542	3.81	03/26/2018	
Xylenes, Total	100			4860	5000	0	97.2	5190	6.62	03/26/2018	
Surrogate: 1,2-Dichloroethane-d4				2610	2500		104.2			03/26/2018	
Surrogate: 4-Bromofluorobenzene				2530	2500		101.1			03/26/2018	
Surrogate: Dibromofluoromethane				2470	2500		99.0			03/26/2018	
Surrogate: Toluene-d8				2420	2500		96.9			03/26/2018	

Batch	140343	SampType:	MS	Units mg/L				Low Limit			Date Analyzed
				SampID:	18031509-001AMS						
Analyses	RL	Qual		Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Benzene	0.050			4.90	5.000	0	98.1	81.5	113	03/26/2018	
Chlorobenzene	0.200			4.82	5.000	0	96.4	81.8	111	03/26/2018	
Trichloroethene	0.200			4.86	5.000	0	97.2	74.4	117	03/26/2018	
Surrogate: 1,2-Dichloroethane-d4				5.06	5.000		101.1	74.7	129	03/26/2018	
Surrogate: 4-Bromofluorobenzene				5.33	5.000		106.6	86	119	03/26/2018	
Surrogate: Dibromofluoromethane				4.78	5.000		95.7	81.7	123	03/26/2018	
Surrogate: Toluene-d8				4.90	5.000		98.1	84.3	114	03/26/2018	

Batch	140343	SampType:	MS	Units mg/L				Low Limit			Date Analyzed
				SampID:	18031517-002AMS						
Analyses	RL	Qual		Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
1,2-Dichloroethane	0.200	S		5.87	5.000	0	117.4	71.5	116	03/26/2018	
Benzene	0.050	S		5.75	5.000	0	114.9	81.5	113	03/26/2018	
Chlorobenzene	0.200	S		5.56	5.000	0	111.1	81.8	111	03/26/2018	
Chloroform	0.200			5.55	5.000	0	110.9	81	115	03/26/2018	
Tetrachloroethene	0.050			4.80	5.000	0	96.1	61.7	114	03/26/2018	
Trichloroethene	0.200			5.55	5.000	0	110.9	74.4	117	03/26/2018	
Vinyl chloride	0.200			4.42	5.000	0	88.3	45.7	130	03/26/2018	
Surrogate: 1,2-Dichloroethane-d4				5.12	5.000		102.4	74.7	129	03/26/2018	
Surrogate: 4-Bromofluorobenzene				5.22	5.000		104.4	86	119	03/26/2018	
Surrogate: Dibromofluoromethane				4.92	5.000		98.4	81.7	123	03/26/2018	
Surrogate: Toluene-d8				5.11	5.000		102.1	84.3	114	03/26/2018	



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	140343	SampType:	MS	Units mg/L					Date Analyzed
SamplD: 18031518-001AMS									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
1,2-Dichloroethane	0.200	S	5.80	5.000	0	116.1	71.5	116	03/26/2018
Benzene	0.050	S	5.81	5.000	0	116.3	81.5	113	03/26/2018
Chlorobenzene	0.200	S	5.70	5.000	0	113.9	81.8	111	03/26/2018
Chloroform	0.200		5.62	5.000	0	112.4	81	115	03/26/2018
Tetrachloroethene	0.050		4.92	5.000	0	98.3	61.7	114	03/26/2018
Trichloroethene	0.200		5.60	5.000	0	112.0	74.4	117	03/26/2018
Vinyl chloride	0.200		4.68	5.000	0	93.5	45.7	130	03/26/2018
Surr: 1,2-Dichloroethane-d4			5.16	5.000		103.1	74.7	129	03/26/2018
Surr: 4-Bromofluorobenzene			5.14	5.000		102.7	86	119	03/26/2018
Surr: Dibromofluoromethane			4.93	5.000		98.7	81.7	123	03/26/2018
Surr: Toluene-d8			5.06	5.000		101.2	84.3	114	03/26/2018

Batch	140343	SampType:	MSD	Units mg/L					RPD Limit 20	Date Analyzed
SamplD: 18031518-001AMSD										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
1,2-Dichloroethane	0.200		5.36	5.000	0	107.1	5.804	8.05	03/26/2018	
Benzene	0.050		5.31	5.000	0	106.3	5.814	9.01	03/26/2018	
Chlorobenzene	0.200		5.08	5.000	0	101.6	5.695	11.42	03/26/2018	
Chloroform	0.200		5.13	5.000	0	102.5	5.619	9.16	03/26/2018	
Tetrachloroethene	0.050		4.29	5.000	0	85.9	4.917	13.55	03/26/2018	
Trichloroethene	0.200		5.04	5.000	0	100.9	5.601	10.47	03/26/2018	
Vinyl chloride	0.200		4.77	5.000	0	95.4	4.675	2.05	03/26/2018	
Surr: 1,2-Dichloroethane-d4			5.11	5.000		102.3			03/26/2018	
Surr: 4-Bromofluorobenzene			5.20	5.000		103.9			03/26/2018	
Surr: Dibromofluoromethane			4.98	5.000		99.5			03/26/2018	
Surr: Toluene-d8			4.96	5.000		99.1			03/26/2018	

Batch	140343	SampType:	MS	Units mg/L					Date Analyzed
SamplD: 18031589-003AMS									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
1,2-Dichloroethane	0.200	S	5.98	5.000	0	119.7	71.5	116	03/26/2018
Benzene	0.050	S	5.91	5.000	0	118.1	81.5	113	03/26/2018
Chlorobenzene	0.200	S	5.93	5.000	0.2760	113.1	81.8	111	03/26/2018
Chloroform	0.200		5.62	5.000	0	112.4	81	115	03/26/2018
Tetrachloroethene	0.050		5.02	5.000	0	100.4	61.7	114	03/26/2018
Trichloroethene	0.200		5.65	5.000	0	112.9	74.4	117	03/26/2018
Vinyl chloride	0.200		4.94	5.000	0	98.7	45.7	130	03/26/2018
Surr: 1,2-Dichloroethane-d4			5.13	5.000		102.6	74.7	129	03/26/2018
Surr: 4-Bromofluorobenzene			5.38	5.000		107.6	86	119	03/26/2018
Surr: Dibromofluoromethane			4.94	5.000		98.7	81.7	123	03/26/2018
Surr: Toluene-d8			5.05	5.000		100.9	84.3	114	03/26/2018



## Quality Control Results

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Client Project: Solutia 2950R

Work Order: 18031445

Report Date: 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Batch 140524	SampType: MBLK	Units µg/L	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
1,1,1-Trichloroethane			2.0	ND				04/03/2018	
1,2-Dichloroethane			2.0	ND				04/03/2018	
Acetone			10.0	ND				04/03/2018	
Benzene			0.5	ND				04/03/2018	
Chlorobenzene			2.0	ND				04/03/2018	
Chloroform			2.0	ND				04/03/2018	
cis-1,2-Dichloroethene			2.0	ND				04/03/2018	
Ethylbenzene			2.0	ND				04/03/2018	
Methylene chloride			2.0	ND				04/03/2018	
Tetrachloroethene			0.5	ND				04/03/2018	
Toluene			2.0	ND				04/03/2018	
trans-1,2-Dichloroethene			2.0	ND				04/03/2018	
Trichloroethene			2.0	ND				04/03/2018	
Vinyl chloride			2.0	ND				04/03/2018	
Xylenes, Total			2.0	ND				04/03/2018	
				45.2	50.00	90.4	79.6	118	04/03/2018
				48.6	50.00	97.3	83.9	115	04/03/2018
				49.3	50.00	98.5	84.9	113	04/03/2018
				49.6	50.00	99.3	86.7	112	04/03/2018

Analyses	Batch 140524	SampType: LCSD	Units µg/L	SPK Ref Val	%REC	RPD Ref Val	RPD %RPD	RPD Limit 40	Date Analyzed	
1,1,1-Trichloroethane			2.0	50.6	50.00	0	101.3	51.19	1.08	04/03/2018
1,2-Dichloroethane			2.0	47.7	50.00	0	95.4	49.52	3.77	04/03/2018
Acetone			10.0	100	125.0	0	80.0	102.8	2.78	04/03/2018
Benzene			0.5	48.7	50.00	0	97.4	48.59	0.25	04/03/2018
Chlorobenzene			2.0	47.9	50.00	0	95.7	48.68	1.68	04/03/2018
Chloroform			2.0	47.5	50.00	0	94.9	48.80	2.78	04/03/2018
cis-1,2-Dichloroethene			2.0	48.5	50.00	0	97.0	48.19	0.64	04/03/2018
Ethylbenzene			2.0	48.2	50.00	0	96.3	50.00	3.73	04/03/2018
Methylene chloride			2.0	42.8	50.00	0	85.7	43.61	1.76	04/03/2018
Tetrachloroethene			0.5	49.3	50.00	0	98.5	51.46	4.37	04/03/2018
Toluene			2.0	44.5	50.00	0	88.9	46.80	5.11	04/03/2018
trans-1,2-Dichloroethene			2.0	47.5	50.00	0	94.9	47.93	0.99	04/03/2018
Trichloroethene			2.0	51.6	50.00	0	103.1	51.49	0.14	04/03/2018
Vinyl chloride			2.0	46.7	50.00	0	93.4	45.91	1.75	04/03/2018
Xylenes, Total			2.0	141	150.0	0	94.3	151.0	6.59	04/03/2018
				46.6	50.00		93.2			04/03/2018
				48.5	50.00		97.0			04/03/2018
				50.5	50.00		101.0			04/03/2018
				48.0	50.00		96.0			04/03/2018

## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Environmental Operations, Inc.

**Work Order:** 18031445

**Client Project:** Solutia 2950R

**Report Date:** 07-May-18

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 140524	SampType: LCS	Units µg/L							Date Analyzed		
SamplID: LCS-N180403A-1		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
1,1,1-Trichloroethane		2.0			51.2	50.00	0	102.4	75.8	121	04/03/2018
1,2-Dichloroethane		2.0			49.5	50.00	0	99.0	75.6	118	04/03/2018
Acetone		10.0			103	125.0	0	82.2	43.4	125	04/03/2018
Benzene		0.5			48.6	50.00	0	97.2	77.8	120	04/03/2018
Chlorobenzene		2.0			48.7	50.00	0	97.4	82.6	113	04/03/2018
Chloroform		2.0			48.8	50.00	0	97.6	75.8	114	04/03/2018
cis-1,2-Dichloroethene		2.0			48.2	50.00	0	96.4	77.3	118	04/03/2018
Ethylbenzene		2.0			50.0	50.00	0	100.0	81.8	117	04/03/2018
Methylene chloride		2.0			43.6	50.00	0	87.2	71	114	04/03/2018
Tetrachloroethene		0.5			51.5	50.00	0	102.9	75.5	119	04/03/2018
Toluene		2.0			46.8	50.00	0	93.6	82.2	113	04/03/2018
trans-1,2-Dichloroethene		2.0			47.9	50.00	0	95.9	77.5	121	04/03/2018
Trichloroethene		2.0			51.5	50.00	0	103.0	75.7	123	04/03/2018
Vinyl chloride		2.0			45.9	50.00	0	91.8	45.8	138	04/03/2018
Xylenes, Total		2.0			151	150.0	0	100.7	82.7	118	04/03/2018
Sur: 1,2-Dichloroethane-d4					45.1	50.00		90.1	79.6	118	04/03/2018
Sur: 4-Bromofluorobenzene					48.2	50.00		96.5	83.9	115	04/03/2018
Sur: Dibromofluoromethane					50.9	50.00		101.8	84.9	113	04/03/2018
Sur: Toluene-d8					48.0	50.00		95.9	86.7	112	04/03/2018

Batch 140524	SampType: MS	Units µg/L							Date Analyzed		
SamplID: 18040048-002AMS		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Benzene		125			17300	12500	2892	115.0	62.5	121	04/03/2018
Ethylbenzene		500			14500	12500	0	115.7	74.4	130	04/03/2018
Toluene		500			14900	12500	2300	101.0	69.5	118	04/03/2018
Xylenes, Total		500			28800	25000	747.5	112.2	71.1	125	04/03/2018
Sur: 1,2-Dichloroethane-d4					11600	12500		92.9	74.7	129	04/03/2018
Sur: 4-Bromofluorobenzene					11500	12500		91.9	86	119	04/03/2018
Sur: Dibromofluoromethane					12400	12500		99.5	81.7	123	04/03/2018
Sur: Toluene-d8					11700	12500		93.5	84.3	114	04/03/2018

Batch 140524	SampType: MSD	Units µg/L							RPD Limit 20	Date Analyzed	
SamplID: 18040048-002AMSD		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Benzene		125	R		13700	12500	2892	86.3	17270	23.17	04/03/2018
Ethylbenzene		500	R		11000	12500	0	88.1	14460	27.11	04/03/2018
Toluene		500	R		11700	12500	2300	74.9	14920	24.56	04/03/2018
Xylenes, Total		500	R		22700	25000	747.5	87.7	28790	23.81	04/03/2018
Sur: 1,2-Dichloroethane-d4					11400	12500		91.1			04/03/2018
Sur: 4-Bromofluorobenzene					12100	12500		96.6			04/03/2018
Sur: Dibromofluoromethane					12400	12500		99.4			04/03/2018
Sur: Toluene-d8					11800	12500		94.5			04/03/2018



## Receiving Check List

<http://www.teklabinc.com/>

Client: Environmental Operations, Inc.

Work Order: 18031445

Client Project: Solutia 2950R

Report Date: 07-May-18

Carrier: Kelsey Tharp

Received By: KF

Completed by:

On:

21-Mar-18

Kalyn Foecke

Kalyn Foecke

Reviewed by:

On:

21-Mar-18

Emily Pohlman

Emily Pohlman

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?

Yes  No

Not Present  Temp °C

Type of thermal preservation?

None  Ice

Blue Ice  Dry Ice

Chain of custody present?

Yes  No

Chain of custody signed when relinquished and received?

Yes  No

Chain of custody agrees with sample labels?

Yes  No

Samples in proper container/bottle?

Yes  No

Sample containers intact?

Yes  No

Sufficient sample volume for indicated test?

Yes  No

All samples received within holding time?

Yes  No

Reported field parameters measured:

Field  Lab

NA

Container/Temp Blank temperature in compliance?

Yes  No

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

Water – at least one vial per sample has zero headspace?

Yes  No

No VOA vials

Water - TOX containers have zero headspace?

Yes  No

No TOX containers

Water - pH acceptable upon receipt?

Yes  No

NA

NPDES/CWA TCN interferences checked/treated in the field?

Yes  No

NA

Any No responses must be detailed below or on the COC.

Headspace was present in the volatile vials for REC-4. Client noted on COC that headspace could not be achieved due to sample consistency. -  
Kfoecke - 3/21/2018 6:16:48 PM

**CHAIN OF CUSTODY** pg. 2 of 2 Work order # 18031445

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

Client: Environmental Operations, Inc.		Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE 4.22 °C			
Address: 1530 South Second Street, Suite 200		Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY			
City / State / Zip St. Louis, MO 63104		Lab Notes BHS on all but Rec-4. KF 3/21/18			
Contact: Larry Rosen	Phone: (314) 480-4694				
E-Mail: LarryR@Environmentalops.com	Fax:				
Are these samples known to be involved in litigation? If yes, a surcharge will apply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Project Name/Number Solutia 2950R		Sample Collector's Name KELSEY THARP			
Results Requested <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		Billing Instructions 2950R			
# and Type of Containers		MATRIX		INDICATE ANALYSIS REQUESTED	
UNPRES		Drinking Water	Soil	Groundwater	Special Waste
15034MS-001	LPZ-2	3/21/18 8:15		2	X X
002	LPZ-5	9:15		2	X X
003	REC-4	10:15		2	X X
004	GM-2	11:50	1	2	X X X
005	VW-1	13:05		2	X X
006	MW-24A	13:50		2	X X
007	RINSATE	14:10		2	X X
008	GM-1	16:00	1	2	X X X
009	GM-1 DUPLICATE	16:00	↓	2	X X X
Relinquished By <i>LS</i>		Date/Time 3/21/18 16:35		Received By <i>J. Force</i>	
				Date/Time 3/21/18 16:35	

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions.

BottleOrder: 42641



31/2/18